

#### ABSTRACT OF THE DISCLOSURE

Four media data coding and multiplexing apparatus 1 to 4 are connected, a video signal 100 having a large information amount is processed in parallel in the media data coding and multiplexing apparatus 1 to 4, other media data pieces of an audio signal 240 and a data signal 340 are processed in the media data coding and multiplexing apparatus 4, and a multiplexing section 44 of the media data coding and multiplexing apparatus 4 combines the signals and output multiplex streams 119, 129, and 139 output from other media data coding and multiplexing apparatus 1 to 3 into one output multiplex stream 149 finally.